LBNL ENVIRONMENTAL MANAGEMENT PROGRAM (EMP)

EMP Coordinator(s) and Organization(s):			Revision Date:		EMP No.:
Blair Horst, Facilities		8	3/28/2008		07-01B
Aspect:		Target:			
Energy use	Implement sustainable practices for energy	Reduce energy intens			
	efficiency.	relative to the baseline	e of energy us	se in fiscal	year (FY) 2003.
Category:					
X Improve	☐ Control ☐ Stud	y (short term)			
Strategy:					
	Y03 baseline and annual energy use, costs and savings				
	udits on an average of 25% of the facilities square footag				ces.
	ngs projects. Install on-site renewable energy or submit	waiver request. Practice	e sustainable	design.	
Actions to Achieve Obje					
	Action		Lead	Due Date	Completion
					Date
	ergy use using FIMS and the Energy Management Syste	em version 4	M. Dong	7/15/07	7/15/07
(EMS4) Web - Data					
	l Electronic Metering Plan.		M. Dong	9/30/07	6/28/07
Install electronic me	tering devices identified in Metering Plan for FY07.	1	M. Dong	9/30/07	9/30/07
4. Conduct FY07 energy audits using Energy Service Contractor (ESCO).			M. Dong	9/30/07	9/30/07
5. Determine FY07 energy use and report.			M. Dong	12/30/07	12/05/07
6. Submit Executable Plan Draft per DOE O 430.2B to the Berkeley Site Office.			B Horst	9/30/08	
7. Report energy use intensity using FIMS and the EMS4 Web - Database			B Horst	12/31/08	
8. Conduct FY08 energy audits via Energy Savings Performance Contract (ESPC) Detailed			B Horst	2/24/09	
Energy Survey (DE	S) per current scheduled Delivery Order contract executi	on.			
9. Begin ESPC Phase 1 construction if in the best interest of LBNL and the government.			B Horst	2/24/09	
10. Submit draft update of Executable Plan per DOE O 430.2B to the Berkeley Site Office.			B Horst	9/30/09	
11. Perform Executable Plan during FY 09			B Horst	12/31/09	
12. Update energy audits for FY 2009 via ESPC DES Phase 2 or by other means.		ıs.	B Horst	12/31/09	
13. Report energy use intensity using FIMS and the EMS4 Web - Database			B Horst	12/31/09	
14. Complete ESPC Ph	ase 1 construction per current ESPC project schedule (c	hanges possible).	B Horst	11/17/10	
15. Repeat on an annua	al cycle.		B Horst		
Metrics (Environmental	Performance Indicators):				
 Electrical use in Mega Watt-Hours (MWH) Building area in square feet 					
 Natural gas use in thousand cubic feet Energy intensity in electrical or natural use per square foot of building area 					

EMP Closure Summary:

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NOTES / INSTRUCTIONS

EMP Coordinator(s)				
	monitoring and reporting on progress, requesting changes to the workplan as appropriate.			
Organization(s)	Name the organization(s) primarily impacted or affected by this EMP. If only one department of an			
	organization is affected, note that department.			
Revision Date	Date that identifies when EMPs are modified or updated.			
EMP Number	Number will be assigned by the EMS Manager.			
Aspect	The significant aspect (e.g. energy use, chemical usage, etc.).			
Objective	Focusing on the impacts related to this significant aspect, state the goal. What is it you want to			
-	achieve? Use action words – reduce, improve, control, etc.			
Target	State "how much and by when." The target is the performance element and should be quantitative and			
_	measurable.			
Category	The categories identify and help to focus the EMP. The definitions of these categories are:			
G ,	Improve – improve the performance in this area			
	 Control – current environmental controls are sufficient, but EMP objective is to maintain and 			
	strengthen the level of control			
	Study – the issue or area has been designated as significant, but historic or baseline data must be			
	studied and compiled to determine the direction of future action			
Strategy	In this section, describe the overall approach to the problem. Some of the questions to be addressed			
	include:			
	How much has or has not been already been accomplished in this area?			
	Why is this important? Are there relevant drivers (regulations, directives, public pressure, etc.)?			
	What are the impacts to be addressed in this EMP?			
Actions	List the specific actions to be taken to achieve the objective and target. List the action and identify the			
	responsible parties and dates by which the actions should be accomplished.			
Metrics	Metrics are the Environmental Performance Indicators, how you measure the accomplishments. List			
	the specific, quantifiable measurements or metrics (percent of employees trained, kilowatt hours saved,			
	tons of waste diverted, gallons of material, etc.).			
EMP Closure	After the EMP and all actions within the EMP are complete, a concise description of the EMP's ability to			
Summary	achieve its objective and target should be provided.			